

CONTENTS

Dedication	vi
Acknowledgements	vii
Introduction	ix
Chapter 1 History of Modern Physics	1
Chapter 2 What Is Time?	5
Chapter 3 History of Earth Time	8
Chapter 4 Our Solar System	19
Chapter 5 Law of Inertia	27
Chapter 6 Newton's Laws of Motion	31
Chapter 7 Kepler's Laws of Planetary Motion	34
Chapter 8 Einstein's Theories of Relativity	45
Chapter 9 What Are Matter, Space, and Light?	56
Chapter 10 Curvature and Space-Time	61
Chapter 11 The Probable Shape of the Universe	65
Chapter 12 Physicists, Milestones of the Past	76
Chapter 13 Time, Evolution versus Creation	91
Chapter 14 Magnetism	96
Chapter 15 Black Holes	100
Chapter 16 Some Outlandish Theories	104
Chapter 17 The Hierarchy of Time	114
Chapter 18 Time Dilation Challenged	120
Chapter 19 The Scientific Method	128
Chapter 20 What Now?	129
List of Figures/Tables	135
Bibliography	137
Keyword Index	139